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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/538,487	06/08/2005	Edmund W.M. Poh	A1-231 US	2274
23683 7590 03/14/2007 MOLEX INCORPORATED 2222 WELLINGTON COURT LISLE, IL 60532			EXAMINER LE, THANH TAM T	
			ART UNIT	PAPER NUMBER
			2839	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		03/14/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/538,487

Applicant(s)

POH ET AL.

Examiner

Thanh-Tam T. Le

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 February 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☒ Claim(s) 22 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date. _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Objections

1. Claim 1, lines 10 and 14, "second housing" should be --said second housing--;
Claim 1, lines 14 and 16; and claim 17, line 12, "each slot" should be --said each slot--;

Claim1, lines 17 and 18; claim 2, line 2; claim 3, lines 1 and 2; claim 10, line 7;
and claim 17, lines 13 and 14, "each terminal" should be -- said at least one terminal--;

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1- 2 and 17-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Classon et al. (4,780,095).

Regarding claims 1, 17 and 19-21, Classon et al., figure 1 shows a connector comprising:

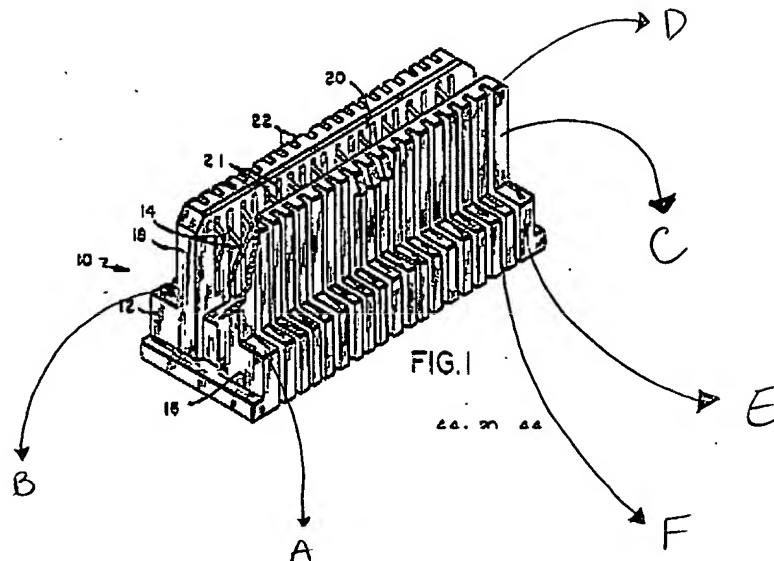
- a housing (10) including a first housing base wall (A) and a second housing base wall (B) connected to the first housing base wall and spaced therefrom, the first and the second housing base walls each having an inner side and an outer side, opposite side, the inner side of the first housing base wall facing the inner side of the second housing base wall, a plurality of ribs (C)

- extending from the first and second housing base walls and spaced apart from each other such that a slot (21) is defined between adjacent ribs, each rib including a first rib portion extending from the first housing base wall in a first direction and a first rib portion extending from the second housing base wall in the first direction such that each slot has a first slot portion (D) which is open to the outer sides of the first and second housing base walls, and a second rib portion (E) extending from the first housing base wall in a second, opposite direction, and a second rib portion extending from the second housing base wall in the second direction such that the each slot has a second slot portion (F); and
- at least one terminal (14) positioned within the each slot and connected to the housing such that a surface area of the at least one terminal is exposed to the environment and air can flow over the surface area to dissipate heat from the at least one terminal.

Regarding claim 2, the at least one terminal is positioned within a respective first slot portion and second slot portion.

Regarding claim 18, the first direction is a direction away from the circuit substrate.

FIGURE A



Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 3-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Classon et al. in view of Eledge et al. (3,199,066).

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Regarding claim 3, Classon et al. disclose the claimed invention as described above except for the at least one terminal comprising a base wall, a first and a second terminal portion.

Eledge et al., figure 1 shows a terminal (10) including a base wall (11), a first and a second terminal portion (12a and 12b) extending from the base wall in the same direction. It would have been obvious to one with ordinary skill in the art at the time the invention was made to provide Classon et al. to have the terminal, as taught by Eledge et al. for better engagement.

Regarding claims 4, 10 and 12, it is noted that Eledge et al. disclose the housing including a central wall and the first and second housing base walls are connected to the housing central wall to define a first and a second aperture (20).

Regarding claim 5, it is noted that Eledge et al. disclose the at least one terminal further including means (14) for connecting the terminal to an associated printed circuit board.

Regarding claim 6, it is noted that Eledge et al. disclose the at least one terminal including means (11) for connecting the terminal to the housing.

Regarding claim 7, it is noted that Eledge et al. disclose the at least one terminal including an enlarged head on first and the second terminal portions(12a and 12b), respectively.

Regarding claims 8 and 13, it is noted that Eledge et al. disclose each of the first and the second apertures is wider than a width of the first and second terminal portions.

Regarding claims 9, 11 and 14-16, it is noted that Eledge et al. disclose two terminals are provided between the adjacent ribs.

Allowable Subject Matter

6. Claim 22 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

7. Applicant's arguments with respect to claims 1-22 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

9. A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh-Tam T. Le whose telephone number is 571-272-2094. The examiner can normally be reached on 7:30-5:00.

11. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Thanh-Tam T. Le
Primary Examiner
Art Unit 2839

TL.
02/20/07.